TYPE-CERTIFICATE
DATA SHEET

No. P.115

for Propeller

KS

Type Certificate Holder
TECHNOFLUG
Leichtflugzeugbau GmbH & Co.KG
Bahnhofstraße 20/1
78669 Wellendingen
Germany

For Models:
KS 1 C
KS 1 G
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### SECTION: ADMINISTRATIVE

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I. General

1. Type / Model

KS / KS 1 C and KS 1 G

2. Type Certificate Holder

TECHNOFLUG Leichtflugzeugbau GmbH & Co. KG
Bahnhofstraße 20/1
78669 Wellendingen
Germany

AP DOA: EASA.AP182

3. Manufacturer

TECHNOFLUG Leichtflugzeugbau GmbH & Co. KG

4. Date of Application

30th June 1992

Note: Application was made to EASA Member States before EASA was established. Refer to Commission Regulation (EU) No 748/2012. These propeller models are EASA certified based on member states approvals prior to EASA existence.

5. EASA Type Certification Date

01st September 1992

Note: KS 1 C and KS 1 G had been certified by LBA Germany (TC/TCDS 32.110/18).
This TCDS replaces LBA TCDS No 32.110/18.
Transfer date to EASA Type Certificate: 15th September 2021
II. Certification Basis

1. State of Design Authority Certification Basis

n/a

2. Reference Date for determining the applicable airworthiness requirements

30th June 1992

3. EASA Certification Basis

3.1. Airworthiness Standards

JAR-22 Part J, with Amendments 22/84/1, 22/84/2 und 22/86/1

3.2. Special Conditions

None

3.3. Equivalent Safety Findings

None

3.4. Deviations

None
III. Technical Characteristics

1. Type Design Definition

Master Drawings propellers KS 1 C and KS 1 G of 1992(*)
(*) = or later approved revisions

2. Description

The KS 1 C and KS 1 G are two-blade propellers, produced as composite parts with a foam core and
glass fibre shell with uni-directional spar caps from glass fiber (KS 1 G) or carbon fibre (KS 1 C).

3. Equipment

n/a

4. Dimensions

Diameter

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 C:</td>
<td>120-158 cm</td>
</tr>
<tr>
<td></td>
<td>1 G:</td>
<td>120-160 cm</td>
</tr>
<tr>
<td></td>
<td>1 G (-)W:</td>
<td>65-79 cm</td>
</tr>
<tr>
<td></td>
<td>1 C (-)S:</td>
<td>90-120 cm</td>
</tr>
</tbody>
</table>

5. Weight

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 C:</td>
<td>1,5-2,3 kg</td>
</tr>
<tr>
<td></td>
<td>1 G:</td>
<td>1,5-2,5 kg</td>
</tr>
<tr>
<td></td>
<td>1 G (-)W:</td>
<td>0,7-1,0 kg</td>
</tr>
<tr>
<td></td>
<td>1 C (-)S:</td>
<td>0,7-1,2 kg</td>
</tr>
</tbody>
</table>

6. Hub/Blade-Combinations

n/a (single piece propeller)

7. Control System

n/a (fixed pitch propeller)
8. Adaptation to Engine

Hub flanges as identified by a letter in the propeller designation (refer to Note VI.7).

9. Direction of Rotation

Direction of rotation (viewed in flight direction) as identified by a letter-code in the propeller designation (refer to Note VI.5).
IV. Operating Limitations

<table>
<thead>
<tr>
<th>KS -...</th>
<th>Maximum Take-Off Power and Speed</th>
<th>Maximum Continuous Power and Speed</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>[kW]</td>
<td>[1/min]</td>
</tr>
<tr>
<td>1 C</td>
<td>37</td>
<td>2500</td>
</tr>
<tr>
<td>1 G</td>
<td>47</td>
<td>2400</td>
</tr>
<tr>
<td>1 G ()-W</td>
<td>19,6</td>
<td>6000</td>
</tr>
<tr>
<td>1 C ()-S</td>
<td>40</td>
<td>4500</td>
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</table>

V. Operating and Service Instructions

<table>
<thead>
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<th>Manuals</th>
<th>German</th>
<th>English</th>
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<tbody>
<tr>
<td>Operator and maintenance Manual</td>
<td>Betriebs- und Wartungshandbuch P3*</td>
<td>Operating and Service Instruction P3*</td>
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Instructions for Continued Airworthiness (ICA)

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(*): latest approved revision
VI. Notes

1. Propeller designation system

Systematik der Propellerkennzeichnung

KS   1   C   158   R   108   ()   ()
(1)  (2)  (3)  (4)  (5)  (6)  (7)  (8)

(1) Manufacturer TECHNOFLUG

(2) Load group

   1 = max. engine power 60 kW

(3) Spar cap material

   C = Carbon fibre, G = glass fibre

(4) Propeller diameter (cm)

(5) Direction of rotation

   R = clockwise, L = counterclockwise

(6) Pitch in 0,75 R in cm, measured at the tangent of the airfoil pressure side

(7) Type of propeller hub flange

   without letter = standard hub, L= hub centric bore, W= hub with cross bore,
   S= smaller diameter for higher RPM

(8) Further data about small changes, not affecting the airworthiness. Combination of several letters and numbers is possible.
SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

n/a

II. Type Certificate Holder Record

Since December 2018:
TECHNOFLUG Leichtflugzeugbau GmbH & Co. KG
Bahnhofstraße 20/1
78669 Wellendingen
Germany

Until December 2018:
TECHNOFLUG Leichtflugzeugbau GmbH
Dr.-Kurt-Steim-Str. 6
78713 Schramberg
Germany

III. Change Record

<table>
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<tr>
<th>Issue</th>
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<tr>
<td>Issue 01</td>
<td>15 September 2021</td>
<td>Initial Issue due to change in TC holder address</td>
<td>Initial Issue, 15 September 2021</td>
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<tr>
<td>Issue 02</td>
<td>17 September 2021</td>
<td>Editorial corrections</td>
<td>Issue 02, 17 September 2021</td>
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<tr>
<td>Issue 03</td>
<td>12 June 2023</td>
<td>KS 1 C ()-S added</td>
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